

## SYSTEM AND METHOD FOR ELECTRONIC FILE TRANSMISSION

### ABSTRACT

5 A system and a method for electronic file transmission are proposed and applied to a  
network environment, whereby electronic files are encrypted and decrypted with hardware  
serial numbers of file reading devices that are authorized terminals for file uploading or  
downloading transmission. Since each hardware serial number is unique for a particular file  
reading device, thus for an encrypted file being transmitted to a destined file reading device,  
10 only which reading device can decrypt the encrypted file for file retrieval; other reading  
devices, who may get the transmitted file from the destined reading device, are incapable of  
proceeding file decryption for this particular file. Moreover, a decrypted or unencrypted file  
is necessarily encrypted similarly by means of a unique hardware serial number of a file  
reading device where the file is to be stored. This therefore effectively prevents unauthorized  
15 copying and propagation of electronic files or digital information from occurrence.

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